

Although the invention is described with respect to the preferred embodiment, modifications thereto will be apparent to those skilled in the art. Therefore, the scope of the invention is to be determined by the claims that follow:

1. A restorable vehicle airbag safety system that deploys the proper airbags upon a signal from a sensor system before a collision occurs and retracts and restores said airbags to their respective original positions in the event the collision does not occur, without the use of pyrotechnic means.
2. A driver side and passenger side airbag designs that utilize a constant-force spring to return the airbag to its original position, said airbag being stored in an inverted tensile condition.
3. A driver side airbag design that utilizes a container that defines a chamber to house said airbag, said container mounted on bearings, and being directly connectable to the steering shaft of the vehicle.
4. A restorable vehicle airbag safety system that requires no bag folding for storage.
5. A restorable vehicle airbag safety system that features an optional redundant negative pressure system to retract said airbags, said system being operated from a vehicle vacuum pump.
6. A restorable vehicle airbag safety system that features spring-loaded airbag covers that close over said airbags on the driver and passenger modules when the system pressure is released overboard.
7. The system of claim 1 wherein no toxic gasses are released into the vehicle interior at airbag deployment.
8. A restorable vehicle airbag safety system that allows a portion of the deployment pressure when starting the vehicle, to the air distribution manifold, knee bolster and side impact positions to reduce the time to full deployment and to reduce deployment shock to the system, thus assuming the function of an air accumulator container.
9. The system of claim 1 whose features of passenger side and side impact modules may be utilized in school buses, passenger trains, and commercial airlines.